

UHER 4000

REPORT L

WITH
PILOTTON
CAMERA SYNC HEAD



HER

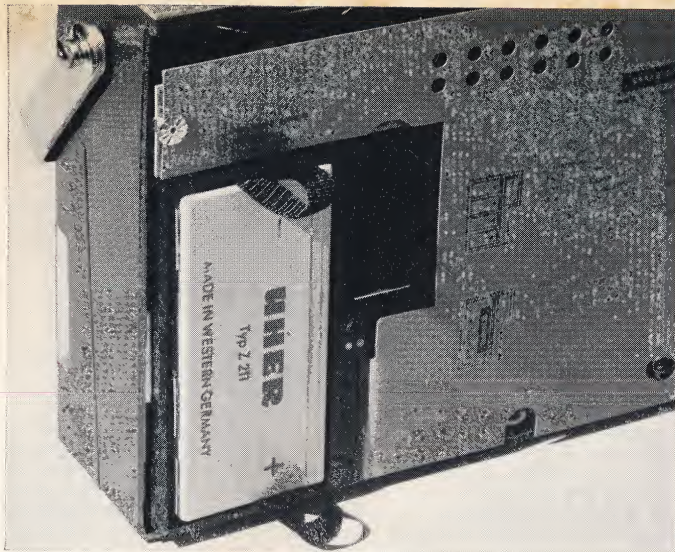
UHER 4000 REPORT L

Seldom has a tape recorder attained such acceptance as the Uher 4000 Report. Countless articles have sung its praise. It has accompanied movie teams and scientific expeditions to the farthest corners of the earth. Many journalists and reporters as well as an increasing number of radio stations use it for on-the-spot reporting. The main reasons for its popularity are certainly its quality and reliability. Right from the beginning its overall design was so well conceived that its production has continued over a great many years virtually without any change. The latest advances in technology have now made it possible to offer customers still further mo-

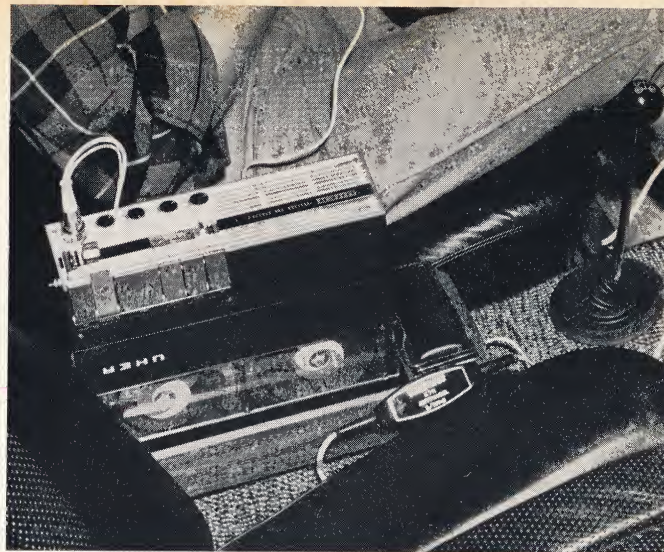
dern conveniences: the new 4000 Report-L operates with a collector-less motor – an all-electronically controlled motor which runs practically without a sound and has a particularly long life. This new model also has a single-ended final stage, which means improved response at either end of the frequency range. The three-digit tape counter is likewise an ideal feature for a portable recorder, and the amplifier operates with a new and extremely low-noise silicon-transistor input stage.

An old dependable that embodies the technique of the future – the new 4000 Report-L.





Battery



Automobile Adaptor

Universal power supplies

Tubular cell lamp batteries – the leaders of expeditions all confirm – can be obtained anywhere in the world. The Report-L requires five. Still more economical is a rechargeable storage battery. This requires no servicing of any kind and is charged by way of the power pack, which can be adapted to any mains voltage. For cars, aircraft, motorboats, and other craft, there is naturally an automobile adaptor cable for 6/12-24-volt batteries. An Uher speciality for expeditions and camping: the battery can also be charged from a 6- or 12-volt automobile battery. (The power demand is the same as that of a parking lamp.)

Four tape speeds

Four tape speeds are quite a surprising feature for such a small recorder. Thus a choice is offered between extra-long running time (12 hrs at a tape speed of 2.4 cm/sec (15/16 ips)) or maximum quality of recording and playback (40 to 20,000 cps at a tape speed of 19 cm/sec (7 1/2 ips)). The 4000 Report-L is in this way capable of meeting any given requirement.

Key control

All tape-feed functions of the 4000 Report-L are key-controlled. The four-

function selector serves at the same time for switching on the recorder and for selecting the tape speed. Volume, tone and recording level are adjustable. The fourth knob is for actuating the input selector for microphone, radio and phonograph. The recorder can be operated with equal ease in any position (also while being carried). Tape counter and recording level indicator are illuminated.

Electrical remote control

The electromagnetic remote control for starting and stopping the tape is a further advantage offered by the new model. It is initiated either by lightly pressing the microphone control key or by actuating the hand or foot switch.

All-electronic motor

No collector, no centrifugal governor – but full electronic control with eight transistors: a completely novel feature for battery-powered tape recorders which endows the motor with a hitherto unheard-of longevity.

Excellent wow and flutter characteristics

The drive system has an extra-fast flywheel which rotates at a uniform speed for any tape speed, thereby ensuring outstanding wow and flutter characteristics

even if the position of the recorder is changed abruptly during recording or playback.

All-metal case

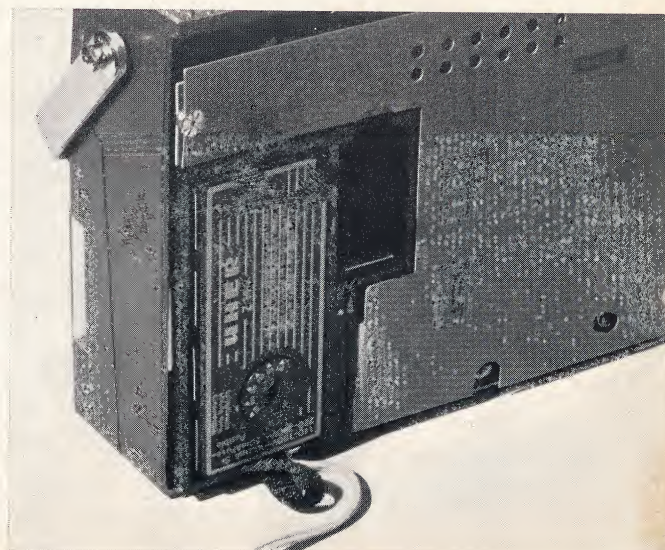
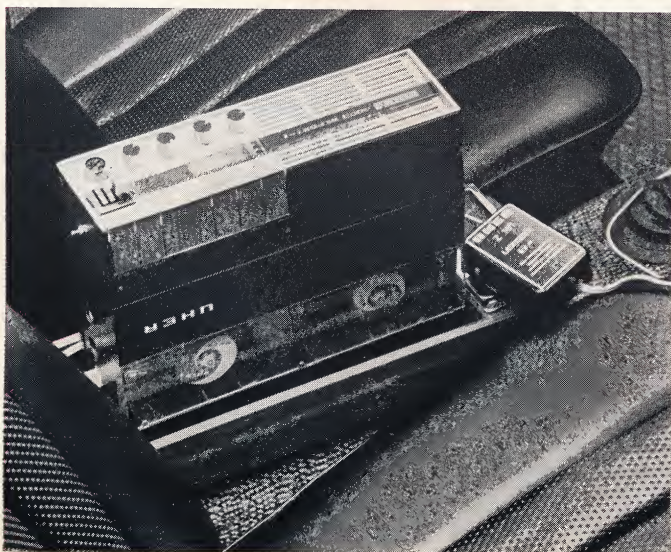
The main demands that a tape recorder designed for use by reporters is expected to meet are ruggedness and reliability. The Uher 4000 Report-L is accordingly accommodated in a sturdily built case. Both the case and its lid are made of pressure-cast aluminum and offer full protection for the tape reels.

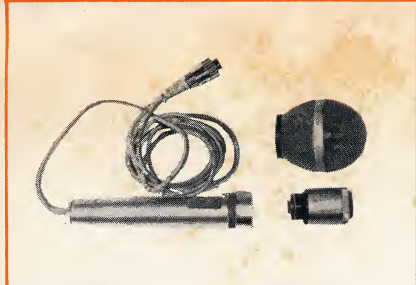
Akustomat

This automatic switch for starting and stopping the tape from the microphone offers a unique possibility for recording the voices of children, noises and animal sounds unnoticed. The Akustomat triggers the tape feed as soon as the microphone picks up a sound and stops it again as the sound dies out. Sensitivity and reset action are adjustable.

"Good industrial design"

Even the early 4000 Report-S won a number of international awards, including two for "Good industrial design". The design of the 4000 Report stems from its function and, as a portable model, has set the pace right from the outset.





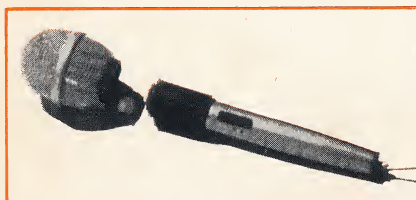
Reporter Microphone Set M 813

Specially designed for the 4000 REPORT-L. Basic set consisting of microphone handle with start/stop switch, microphone capsule (to be screwed on and off) with cardioid response and windscreen. Continuously variable speech/music switch. Frequency response: 40-16,000 cps.



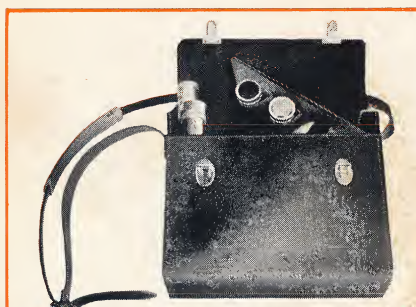
Additional Microphone Set M 812

Extension equipment set for M 813 consisting of an omnidirectional capsule, table stand, telescopic handle (19") and a Lavalier suspension. For M 813 and M 812 an Ever-Ready Carrying Case, Model Z 611, is also available.



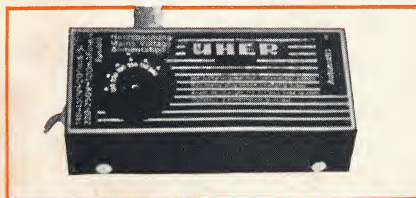
Dynamic Remote Control Microphone M 515

Moderately priced microphone, with start/stop switch, cardioid response. Rugged design, metal handle. Frequency response: 80-12,000 cps. For outdoor recording use a M 942 windscreen.



Ever-Ready Carrying Case Z 612

Made of best neat's leather, for the Reporter Microphone Sets M 813 and M 812. Colour: black. As Z 611 natural colour.



Mains-Operated Power Unit and Battery Charger Z 114

For operating the 4000 REPORT-L from the mains and charging the Z 211 spill-proof storage battery.



All-transistor tape recorder to be operated from all kinds of power sources.

Recording sense: Two tracks to international standard.

Tape speeds: 15/16 ips, 1 7/8 ips, 3 3/4 ips, 7 1/2 ips.

Reel diameter: up to 5"

Frequency response: 40-4500 cps (2.4 cm/sec), 40-10000 cps (4.75 cm/sec), 40-16000 cps (9.5 cm/sec), 40-20000 cps (19 cm/sec)

Wow and flutter (DIN): max. $\pm 0.15\%$ at 7 1/2 ips

Dynamic range: 56 dB

Inputs

Microphone: Input impedance approx. 2 kohms, minimum input voltage for full load (1000 cps) 0.1 mV, max. input voltage 20 mV.

Radio: Input impedance 47 kohms, minimum input voltage for full load (1000 cps) 1 mV, max. input voltage 100 mV.

Phono: Input impedance 1 Mohm, minimum input voltage for full load (1000 cps) 40 mV, max. input voltage 4 V.

Outputs

Amplifier/Radio: Output voltage for full load (1000 cps) 1 V/15 kohms.

External speaker: 2 V/4 ohms

Transistors: 3 x OC 305, 3 x AC 151, 1 x AC 153, 1 x AC 176, 1 x BCY 51, motor unit: 3 x AC 153, 3 x OC 305, 2 x BFY 39

Power supply: 5 flashlight cells 1.5 V or "dryfit" storage battery Z 211 or mains-operated power unit and battery charger Z 114, car-battery in connection with cable K 711 (6/12 V)

or K 712 (24 V). Recharging of the "dryfit" storage battery from the car-battery by means of the Automobile Battery Charger Z 161, Z 162 or Z 163.

3-digit Counter with Pushbutton Reset

Operating time: from flashlight cells approx. 10 hours of intermittent operation. Continuous or discontinuous operation for approx. 6 hours from the "dryfit" storage battery.

Mains Operation: The mains connection unit can be converted to 110, 130, 150, 220, 240, 250 V A.C.

Output Power: 1 W (push-pull output stage)

Playing Time: (with double-play tape) 2 x 1 hour at 9.5 cm/sec.

Power input: approx. 2.5 W.

Monitoring: over earphones or speaker.

Recording Level Control: By electric meter with scale calibrated in dB.

Connections: For radio, phono, mixer, telephone attachment, speaker and earphones.

Arrestable microphone plug.

Socket for hand-operated or foot-operated remote control unit and for the Akustomat.

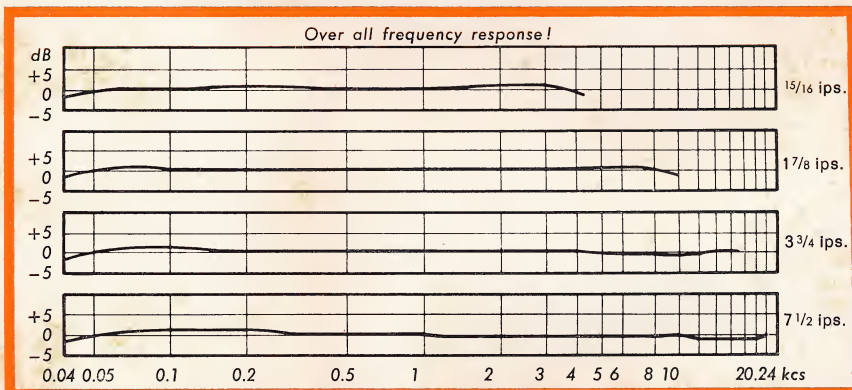
Housing: Siluminum pressure casting.

Colour: anthracite, keys and front-panel dul silver (aluminium anodized)

Dimensions: 11" x 8" x 3"

Weight without batteries: approx. 3 kg.

We reserve the right to introduce whatever modifications may serve the interest of technological progress. All technical data conform to the relative German Standard (DIN) measuring specifications covering magnetic tape recorders.



Microphone Extension Cable K 124

length 5 meters (approx. 15 ft.). Suitable for the M 514, M 515 and M 813 microphones

Automobile Audio Cable K 521

connects the 4000 REPORT L to a car radio.

Automobile Adaptor Cable K 711

for operating the recorder from a 6-volt or 12-volt car battery via the car lighter plug-in

Automobile Adaptor Cable K 712

same as K 711, but for 24 volts

Connection Cable K 713

for connecting the Z 114 power unit and battery charger to the 4000 REPORT L.

Windscreen M 942

Suitable for microphone M 515

Hand-operated Remote Control F 111 start/stop remote control

Foot-operated Remote Control F 211 same as F 111, but foot-operated

Akustomat F 411

acoustic switch for sound-controlled start and stop of the recorder

Automobile Battery Charger Z 161:

for charging the Z 211 dryfit storage battery from a 6-volt automobile battery.

Automobile Battery Charger Z 162:

same as Z 161, but for 12 V

Automobile Battery Charger Z 163:

same as Z 161, but for 24 V

Dryfit Storage Battery Z 211

special accumulator requiring no service, for economical operation.

Ever-Ready Carrying Case Z 512:

of best neat's leather with shoulder strap, shoulder pad, and microphone receptacle. Colour: black; in natural colour as Z 511.

Audio Cable K 511:

for connecting a radio set to the tape recorder for recording and playback.

Midget Magnetic Earphone W 212

for monitoring the recording and for playback. Complete with earclip and stethoclip.



WORLD FAMOUS UHER 4000L WITH RANGER SYNC

.15% regulation @ 7-1/2 ips.

Signal to noise ratio better than 50 db.

Freq. 50-22k cps $\pm$ 3 db.

Rechargeable battery, carrying case,
a.c. adapter, microphone included.

Half the price of other professional units.

Now available with Rangertone sync system.

The professional recordist around the world in the radio and TV broadcast industry has used the UHER 4000S for his most exacting recording problems. Now, with lip-sync, the new improved version 4000L combines ultimate portability with professional sound quality and a host of convenient features. Now for the first time the hobbyist can equip his home movie-making efforts with synchronized sound at a reasonable price.

RANGER SYNC SYSTEM

A special sync recording head is installed on your machine to provide a constant, inaudible 60 cycle signal on the tape. This recorded signal does not affect the audio quality in any way. This signal serves as an automatic speed regulator during playback, assuring exact lip-sync register between separate picture and sound. With the sync and audio signals recorded simultaneously on the same tape, all concern due to tape stretch, shrinkage, voltage fluctuation and frictional changes is completely eliminated. Should any of these factors affect the tape speed in any way, both the sync signal and audio signal would be equally affected. On playback, as the sync signal is automatically brought into step, virtually recreating the original recording conditions, the audio signal is also brought into perfect lip-sync with the picture.

DISTRIBUTED IN CANADA BY:

ROBERT BOSCH (CANADA) LTD.
33 ATOMIC AVENUE,
TORONTO 18, ONTARIO

UHER TAPE RECORDERS

BUILT FOR EVERY PURPOSE